

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Shilin Chen  
Serial No.: 10/766,243  
Filing Date: January 26, 2004  
Group Art Unit: 2128  
Title: **FORCE-BALANCED ROLLER-CONE BITS, SYSTEMS,  
DRILLING METHODS, AND DESIGN METHODS**

**Mail Stop AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

<p>EXPRESS MAIL CERTIFICATE NO.: EV 473960398 US</p> <p>I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p> <p>Name: <u>Willie Jiles</u> Willie Jiles</p> <p>Date: <u>September 9, 2004</u></p>
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EV473960398US

INFORMATION DISCLOSURE STATEMENT

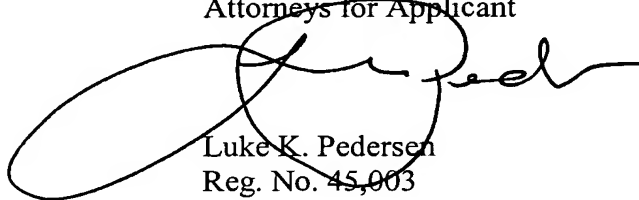
Applicant respectfully requests, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified patent application. Copies of these references are enclosed for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. § 1.97(h), no representation is made that these references qualify as prior art or that these references are material to the patentability of the present application.

Since the present Application was filed after June 30, 2003, a copy of any U.S. Patent and any U.S. Patent Application Publication cited on the attached PTO Form 1449 is not being submitted with this Information Disclosure Statement pursuant to the July 11, 2003 waiver of 37 C.F.R. S 1.98(a)(2)(i) by the U.S. Patent and Trademark Office.

This Information Disclosure Statement is submitted before an Office Action on the merits, and therefore, pursuant to 37 C.F.R. § 1.97(b), no fee is believed due. However, if a fee is due, the Commissioner is authorized to charge such fee to Deposit Account No. 50-2148 of Baker Botts L.L.P.

Respectfully submitted,

BAKER BOTTS L.L.P.  
Attorneys for Applicant



Luke K. Pedersen  
Reg. No. 45,003

Date: 9/9/04

CORRESPONDENCE ADDRESS

Customer Number: **31625**  
Attorney Docket No.: 074263.0212

PTO-1449

Application No.

10/766,243

Applicant(s)

Shilin Chen

Docket Number

074263.0212  
(SC-98-025 C3-C)

Group Art Unit

2128

Filing Date

Jan. 26, 2004

Information Disclosure Citation  
in an Application

## U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	1,209,299	12/19/1916	Hughes	--	--	12/30/1914
B	1,263,802	04/23/1918	Reed	--	--	08/13/1917
C	1,394,769	10/25/1921	Sorensen	--	--	05/18/1920
D	4,056,153	11/01/1977	Miglierini	175	376	07/16/1976
E	4,627,276	12/09/1986	Burgess et al.	73	151	12/27/1984
F	5,010,789	04/30/1991	Brett et al.	76	108.2	10/06/1989
G	5,042,596	08/27/1991	Brett et al.	175	57	07/12/1990
H	5,131,478	07/21/1992	Brett et al.	175	57	06/10/1990
I	5,216,917	06/08/1993	Detournay	73	151	07/11/1991
J	RE 34,435	11/09/1993	Warren et al	175	398	03/11/1992
K	5,305,836	04/26/1994	Holbrook et al.	175	39	04/08/1992
L	5,456,141	10/10/1995	Ho	76	108.2	11/12/1993
M	5,605,198	02/25/1997	Tibbitts et al.	175	432	04/28/1995
N	5,767,399	06/16/1998	Smith et al.	73	152.11	03/25/1996
O	6,142,247	11/07/2000	Pessier	175	340	07/19/1996
P	6,348,110	02/19/2002	Evans	148	528	04/05/2000

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						YES	NO
Q	1654515 A1	03/29/1988	SU	E 21 B	10/16	X	
R	1691497 A1	05/30/1988	SU	E 21 B	10/16	X	
S	0384734 A1	08/29/1990	EPO	E 21 B	10/46	X	
T	2367578 A	04/10/2002	GB	E 21 B	10/56	X	
U	2367579 A	04/10/2002	GB	E 21 B	10/56	X	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

<b>PTO-1449</b>  <b>Information Disclosure Citation In an Application</b>	Application No. <b>10/766,243</b>		Applicant(s) <b>Shilin Chen</b>	
	Docket Number <b>074263.0212</b> (SC-98-025 C3-C)	Group Art Unit <b>2128</b>	Filing Date <b>Jan. 26, 2004</b>	

**U.S. PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	6,349,595	02/26/2002	Civolani et al	73	152.02	09/27/2000
B	6,374,930	04/23/2002	Singh et al.	175	374	06/08/2000
C	6,516,293	02/04/2003	Huang et al.	703	10	03/13/2000
D	6,533,051	03/18/2003	Singh et al.	175	371	09/07/1999
E	2004/0045742 A1	03/11/2004	Chen	175	374	03/08/2003
F	2004/0104053 A1	06/03/2004	Chen	175	341	03/08/2003
G						
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I						

	OTHER DOCUMENTS (Including Author, Title, Source, and Pertinent Pages)					DATE
J	M.C. Sheppard, et al., "Forces at the Teeth of a Drilling Rollercone Bit: Theory and Experiment", Proceedings: 1988 SPE Annual Technical Conference and Exhibition; Houston, TX, USA, Oct. 2-5, 1988, Vol. Delta, 1988, pp 253-260 18042, XP002266080, Soc. Pet Eng AIME Pap SPE 1988 Publ by Soc of Petroleum Engineers of AIME, Richardson, TX, USA					
K	T.M. Warren et al, "Drag-Bit Performance Modeling", SPE Drill Eng. June 1989, Vol. 4, No. 2, pp 119-127 15618, XP002266079					
L	T.M. Warren, "Factors Affecting Torque for A Roller Cone Bit", JPT J PET Technol Sept. 1984, Vol. 36, No. 10, pp 1500-1508, XP002266078					
M	D.K. Ma, A New Method of Description of Scraping Characteristics of Roller Cone Bit, Petroleum Machinery, July, 1988 (English translations with original Chinese version attached)					
N	Wilson C. Chin, Wave Propagation in Petroleum Engineering (1994)					
O	Brochure entitled "Twist & Shout", (SB2255.1001), 4 pages					
P	B.L. Steklyanov, et al, "Improving the Effectiveness of Drilling Tools," Series KhM-3, Oil Industry Machine Building, pub. Central Institute for Scientific and Technical Information and Technical and Economic Research on Chemical and Petroleum Machine Buidling, Tsintikhimneftemash, Moscow, 1991 (translated from Russian)					
Q	Energy Balanced Series Roller Cone Bits, www.halliburton.com/oil_gas/sd1380.jsp					
R	Ashmore, et al., Stratapax™ Computer Program, Sandia Laboratories, Albuquerque, NM , (76 pages)					
S	F.A.S.T.™ Technology Brochure entitled "Tech Bits", Security/Dresser Industries, Sept. 17, 1993 (1 page)					

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

<b>PTO-1449</b>  <b>Information Disclosure Citation In an Application</b>	Application No. <b>10/766,243</b>		Applicant(s) <b>Shilin Chen</b>	
	Docket Number <b>074263.0212</b> (SC-98-025 C3-C)	Group Art Unit <b>2128</b>	Filing Date <b>Jan. 26, 2004</b>	

### U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A						
B						
C						

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
D							
E							
F							

	OTHER DOCUMENTS (Including Author, Title, Source, and Pertinent Pages)					DATE
G	Sii PLUS Brochure entitled "The PDC Plus Advantage", from Smith International (2 pages)					
H	Specification sheet entitled "SQAIR Quality Sub-Specification", Shell Internationale Petroleum Mij. B.V., The Hauge, The Netherlands, 1991 (2 Pages)					
I	Brochure entitled "FM2000 Series-Tomorrow's Technolgoies for Today's Drilling.", Security DBS, Dresser Industries, Inc., 1994 ( Pages)					
J	Brochure entitled "FS2000 Series-New Steel Body Technology Advances PDC Bit Performance and Efficiency", Security DBS, Dresser Industries, Inc., 1997 (6 pages)					
K						
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S						

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